

COMMONWEALTH of VIRGINIA

DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET RICHMOND, VIRGINIA 23219 (804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT:

Intox EC/IR II

SERIAL NUMBER:

010520

CERTIFICATION DATE:

May 2, 2014

DATE RECERTIFICATION DUE:

October 29, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

 0.020 ± 0.004 g/210 L

 0.150 ± 0.007 g/210 L

 $0.080 \pm 0.004 \text{ g/}210 \text{ L}$

 0.250 ± 0.007 g/210 L

Michellet

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of k=3. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

Michelle M. Billeter

Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 5th day of

by Michelle M. Billeter

Teresa J. Brewster, Notary Public

My commission expires: April 30, 2017



DBH

Department of Forensic Science Breath Alcohol Section Instrument Maintenance History 1/1/1990 To 5/2/2014

Instrument Serial Number:		010520	As of 02-May-14	
Maintenance	Certification	Technician		
Date	Date	Initials	Remarks	
02-May-14	02-May-14	DBH (21250)	CERTIFIED.	
13-Nov-13	13-Nov-13	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.	
10-Jul-13	29-May-13	MMB (26417)	REPLACED UPS BACK-UP BATTERY.	
29-May-13	29-May-13	DBH (21250)	CERTIFIED.	
13-Dec-12	13-Dec-12	DBH (21250)	CERTIFIED.	
12-Dec-12	12-Dec-12	DBH (21250)	CERTIFIED.	
03-Jul-12	03-Jul-12	TLN (25387)	CERTIFIED. REPLACED DRY GAS STANDARD.	
27-Jan-12	18-Jan-12	DBH (21250)	CORRECTED DRY GAS STANDARD EXPIRATION DATE IN INSTRUMENT MEMORY.	
18-Jan-12	18-Jan-12	DBH (21250)	CERTIFIED, REPLACED DRY GAS STANDARD.	
27-Jul-11	27-Jul-11	DBH (21250)	CERTIFIED	
01-Feb-11	01-Feb-11	RJP (22428)	CERTIFIED.	
17-Aug-10	17-Aug-10	RJP (22428)	REPLACED DRY GAS STANDARD. CERTIFIED.	
01-Mar-10	01-Mar-10	RJP (22428)	CALIBRATED AND CERTIFIED.	
23-Sep-09	23-Sep-09	RJP (22428)	CERTIFIED.	
11-Sep-09	11-Sep-09	DBH (21250)	CALIBRATED AND CERTIFIED.	
01-Jul-09	01-Jul-09	DBH (21250)	CALIBRATED AND CERTIFIED.	
14-Apr-09	14-Apr-09	NMJ (22392)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.	
11-Feb-09	11-Feb-09	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.	

INTOX EC/IR II

Quality Assurance Worksheet

010520 Instrument Serial Number Worksheet Start Date 5/2/2014

Location DFS-Central

Address

DFS Technician Donald Hall License No. 21250

> ✓ Laboratory ☐ On-Site

Site Specification: No detrimental environmental conditions exist.

Instrument Barometer (mm HG) 753 Reference Barometer (mm HG) 754

Reference Barometer(RB)Serial # 009109 **RB** Calibration Due 8/1/2014

Measurement Assurance Check

Standard (sea level) **PA Target** minimum maximum Sample 1 0.301 0.300 0.297 0.288 0.305 Sample 2 0.301 Precision sample min sample max Sample 3 0.301 0.301 0 0.301

Sample 1 Standard (sea level) PA Target minimum maximum 0.100 0.100 0.099 0.096 0.102 Sample 2 0.100 Precision Sample 3 0.100 sample min sample max 0 0.100 0.100

Dry gas standard Lot No. (with tank no.) AG226201-17

Supplies Mouthpieces

Installed at Location Certificates of Analysis

Operator Worksheet Removed to DFS-Central Other:

Notes:

Intox EC/IR II QA Worksheet Issued by Calibration and Training Program Manager Issue Date: 9-December-2013

l		1 N L L
Instrume	nt Seria	Number

010520

Certification Date

5/2/2014

□ Calibrated

▼ Certified

Measurement Assurance Check

V	Inst	rum	ent	Test
IV	11151	Ium	en	1681

Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level) 0.250 Precision 0	PA Target 0.248	minimum 0.240 sample min 0.246	maximum 0.255 sample max 0.246	Sample 1 Sample 2 Sample 3	0.246 0.246 0.246
Standard (sea level) 0.150 Precision 0.001	PA Target 0.148	minimum 0.143 sample min 0.148	maximum 0.152 sample max 0.149	Sample 1 Sample 2 Sample 3	0.148 0.149 0.148
Standard (sea level) 0.080 Precision 0	PA Target 0.079	minimum 0.076 sample min 0.080	maximum 0.082 sample max 0.080	Sample 1 Sample 2 Sample 3	0.080 0.080 0.080
Standard (sea level) 0.020 Precision 0	PA Target 0.020	minimum 0.017 sample min 0.019	maximum 0.023 sample max 0.019	Sample 1 Sample 2 Sample 3	0.019 0.019 0.019

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician

Donald Hall

Date

5/2/14

Issuing Analyst

Midulle Bellite

Date

5514

Intox EC/IR-II: Certification

Department of Forensic Science
Serial Number: 010520 Test Number: 1439
Test Date: 05/02/2014 Test Time: 13:27 EDT

Technician Initials: DBH Dry Gas Target: 0.248

Lot Number: 2961225012-09 Exp Date: 11/01/2014
Tank Pressure: 169 psi Barometric Pressure: 753 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:27
BLK	0.000	13:28
CHK	0.246	13:29
BLK	0.000	13:31
CHK	0.246	13:31
BLK	0.000	13:33
CHK	0.246	13:34
BLK	0.000	13:36

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

Intox EC/IR-II: Certification

Department of Forensic Science
Serial Number: 010520 Test Number: 1440
Test Date: 05/02/2014 Test Time: 13:38 EDT

Technician Initials: DBH
Dry Gas Target: 0.148

Lot Number: 2951215012-04 Exp Date: 11/01/2014
Tank Pressure: 615 psi Barometric Pressure: 752 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:39
BLK	0.000	13:40
CHK	0.148	13:40
BLK	0.000	13:42
CHK	0.149	13:42
BLK	0.000	13:44
CHK	0.148	13:45
BLK ·	0.000	13:46

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

Intox EC/IR-II: Certification

Department of Forensic Science
Serial Number: 010520 Test Number: 1441
Test Date: 05/02/2014 Test Time: 13:50 EDT

Technician Initials: DBH Dry Gas Target: 0.079

Lot Number: 0771308012-01 Exp Date: 05/01/2015
Tank Pressure: 178 psi Barometric Pressure: 752 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:50
BLK	0.000	13:51
CHK	0.080	13:52
BLK	0.000	13:53
CHK	0.080	13:54
BLK	0.000	13:55
CHK	0.080	13:56
BLK	ഗ. ഗഗഗ	13:57

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

DBH mm⁸

Intox EC/IR-II: Certification

Department of Forensic Science
Serial Number: 010520 Test Number: 1442
Test Date: 05/02/2014 Test Time: 13:59 EDT

Technician Initials: DBH Dry Gas Target: 0.020

Lot Number: 0771302011-02 Exp Date: 05/01/2015
Tank Pressure: 232 psi Barometric Pressure: 752 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:59
BLK	0.000	14:00
СНК	0.019	14:01
BLK	0.000	14:02
CHK	0.019	14:03
BLK	0.000	14:04
CHK	0.019	14:05
BLK	0.000	14:06

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010520 Test Number: 1443
Test Date: 05/02/2014 Test Time: 14:09 EDT

Dry Gas Target: 0.297

Lot Number: AG322702-09 Exp Date: 08/15/2015

Tank Pressure: 291 psi Barometric Pressure: 752 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	14:10
CHK	0.301	14:10
BLK	0.000	14:12
CHK	0.301	14:13
BLK	0.000	14:15
CHK	0.301	14:16

Test Status: Success

Calibration CRC: CDB91AC2

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010520 Test Number: 1444
Test Date: 05/02/2014 Test Time: 14:19 EDT

Dry Gas Target: 0.099

Lot Number: AG226201-17 Exp Date: 09/18/2014

Tank Pressure: 232 psi Barometric Pressure: 752 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	14:20
CHK	0.100	14:20
BLK	0.000	14:22
CHK	0.100	14:23
BLK	0.000	14:24
CHK	0.100	14:25

Test Status: Success

Calibration CRC: CDB91AC2

INSTRUMENT, TEST,

DFS

HALL, DONALD, B

DFS Central Lab

21250

10/01/2014 05/02/2014

010520

05/02/2014

14:35 EDT

0.00



IntoxNet MIS Report Report Generated 02 May 2014 at 15:25

Test Results

Instrument	Serial	Number	010520

Test # 001445 Subject Test Test Location 1 Department of

Test Date 02 May 2014

Operator's Last Name HALL

Agency DFS Central Lab Card Serial Number 121250

Subject's Last Name INSTRUMENT

Subject's Middle Initial

Data Type BLK

Blow Sample Number 1

Blow Sample Number 2

Driver's License Number

Test Location 2 Forensic Science

Test Time 14:29

Remote/Local Local

Operator's First Name DONALD

License Number 21250

Effective Date 10/01/2012

Expiration Date 10/01/2014

Operator's Middle Initial B

Subject's First Name TEST Subject's Date of Birth 00/00/0000

Subject's Sex Male Driver's License Expiration 00/00/0000

Test Location 3 System Check Passed

Court Name DFS

End Date 02 May 2014 End Time 14:37 Result Time 14:35 Result Date 02 May 2014 Result 0.00 Data Type DIAG Sample Value Pass Sample Time 14:29 Data Type BLK Sample Value 0.000 Sample Time 14:30 Data Type CHK Sample Time 14:30 Sample Value 0.100 Data Type BLK Sample Value 0.000 Sample Time 14:32 Data Type SUBJ Sample Value 0.000 Sample Time 14:33 Data Type BLK Sample Value 0.000 Sample Time 14:34 Data Type SUBJ Sample Value 0.000 Sample Time 14:35

Sample Value 0.000

Standard Type Dry Gas Std Standard Lot Number AG226201-17

Tank Pressure 232

Driver's License State

Blow Duration 3.48 sec Blow Duration 3.96 sec

Barometric Pressure 752 mmHg Blow Volume 1923 cc Blow Volume 2311 cc

End-of-Blow Time 14:33 End-of-Blow Time 14:35

Sample Time 14:36

Tamper Evident Stamp 6b9f03fb

Test Status Success

Test Status Code 0

Standard Value 0.099

Standard Expiration Date 09/18/2014

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